

FINAL REPORT
SEPTEMBER 1994

REPORT NO. 93-14

SOMALIA ENVIRONMENTAL
MONITORING OF AMMUNITION
IN OPEN STORAGE,
FALL 1993

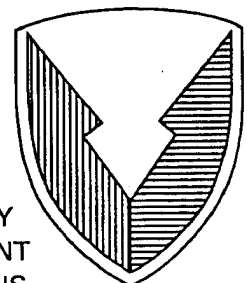
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U.S. ARMY DEFENSE AMMUNITION
CENTER AND SCHOOL

VALIDATION ENGINEERING DIVISION
SAVANNA, ILLINOIS 61074-9639

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19. ABSTRACT (Continue on reverse if necessary and identify by block number) The U.S. Army Defense Ammunition Center and School (USADACS), Validation Engineering Division (SMCAC-DEV), was tasked by U.S. Army Armament Research, Development and Engineering Center (ARDEC) to monitor ammunition in open storage in Somalia. This was an ongoing test of ARDEC, Predictive Technology Branch, surveillance program to ensure long-term reliability of ammunition in the field. This report contains test results of selected ammunition monitored during November 1993.					
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U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL
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REPORT NO. 93-14

SOMALIA ENVIRONMENTAL MONITORING OF
AMMUNITION IN OPEN STORAGE, FALL 1993

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PART 1

INTRODUCTION

A. BACKGROUND. The U.S. Army Defense Ammunition Center and School (USADACS), Validation Engineering Division (SMCAC-DEV), was tasked by U.S. Army Armament Research, Development and Engineering Center (ARDEC) to monitor ammunition in open storage in Somalia. This was an ongoing test of ARDEC, Predictive Technology Branch, surveillance program to ensure long-term reliability of ammunition in the field. This report contains test results of selected ammunition monitored from November 1993.

B. AUTHORITY. This test was conducted IAW mission responsibilities delegated by the U.S. Army Armament, Munitions and Chemical Command (AMCCOM), Rock Island, IL.

C. OBJECTIVE. The objective of this test was to determine the temperatures ammunition experienced while in open storage in Mogadishu, Somalia during November 1993. This test data will assist ARDEC in determining any adverse effects this exposure had on ammunition stockpile reliability.

D. CONCLUSION. Mogadishu, Somalia provides an environment in which high humidity exists daily, creating a corrosive environment. Ten data loggers were initially installed on the ammunition items at this location. Of the 10 data loggers, 7 were no longer in operation when collected for downloading due to this corrosive environment generated by the coast. The following results were compiled from the three remaining operable data loggers. The minimum peak humidity was 86.8 percent. The 120mm tank ammunition container experienced a peak external temperature of 135.1 degrees Fahrenheit and a peak internal temperature of 131.7 degrees Fahrenheit. For both peak external and peak internal temperatures, the 120mm tank ammunition container experienced higher temperatures than the TOW 2 missile. This was

probably due to the wooden box the TOW 2 missile was stored in which provides protection from solar radiation. Furthermore, the bottom box of the TOW 2 missile experienced lower peak temperatures than the top box, due to the shade the top box provided.

PART 2

NOVEMBER 1993

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PART 3

TEST PROCEDURES

Tests were conducted at the ammunition supply point (ASP) located at the airport in Mogadishu, Somalia, which is approximately several hundred yards from the coast. The salt and moisture along the coast create a corrosive environment. A total of 10 ACR data loggers were installed on 3 different types of ammunition in open storage. Each data logger contained a humidity probe, internal temperature probe, and external temperature probe. The data loggers recorded a reading for each probe every 30 minutes.

PART 4

TEST EQUIPMENT

Three ammunition items were tested during this program. Items tested were selected based on potential sensitivity to extreme temperature conditions. The actual site for each test item was randomly selected from available open storage pallets containing each specific ammunition item. Table 1 contains a list of the ammunition and locations of the data loggers that were still functioning at the time of downloading. The data logger locations show where each data logger was positioned on the specified palletized ammunition. For more details on data logger locations, see Part 6.

SOMALIA

TEST ITEMS

TABLE 1

DESCRIPTION:	GUIDED MISSILE SURFACE ATTACK BGM-71-1B (TOW 2)
DODIC:	PV01
LOT NO.:	HAQ-3160-4A
NSN:	1410-01-301-0815-PV01
DATA LOGGER NO.:	25
DATA LOGGER LOCATION:	TOP OF TOP BOX

SOMALIA
TEST ITEMS

TABLE 1

DESCRIPTION:	GUIDED MISSILE SURFACE ATTACK BGM-71-1B (TOW 2)
DODIC:	PV01
LOT NO.:	HAQ-3160-4A
NSN:	1410-01-301-0815-PV01
DATA LOGGER NO.:	K35
DATA LOGGER LOCATION:	BETWEEN BOXES

DESCRIPTION:	CARTRIDGE 120MM HEAT-MP-T M830
DODIC:	C787
LOT NO.:	MHM90C022Y005
NSN:	1315-01-232-4638-C787
DATA LOGGER NO.:	81
DATA LOGGER LOCATION:	TOP OF PALLET

PART 5

TEST RESULTS

Due to the corrosive environment generated by the coastal location of the ASP on the Mogadishu, Somalia airport, 7 of the 10 data loggers were no longer in operation when collected and downloaded. Because only three data loggers were operating, the data received is limited, including no data from the 84mm cartridge and launcher.

PEAK EXTERNAL AMMUNITION TEMPERATURE

The highest peak external temperature recorded was on the 120mm tank ammunition cartridges at 135.1 degrees Fahrenheit on Julian Date 326 (22 November 1993). Additionally, the daily peak temperature for 120mm tank ammunition was higher than the daily peak temperature for the TOW 2 missile. This is due to the exposed metal surface of the 120mm tank ammunition absorbing more solar radiation than the wooden surface of the TOW 2 missile wooden container. As expected, the probe at the top of the TOW 2 missile box recorded higher temperatures than the probe between the boxes. The top of the top box was exposed to direct sunlight, while the top of the bottom box was shaded most of the day, thus, avoiding the radiation energy of the sun (see Table 2, page 5-2, for additional details on peak exterior ammunition temperatures).

SOMALIA PEAK
TEMPERATURE READINGS
(EXTERIOR)

TABLE 2

Julian Date	Temperature (F.) TOW 2 Missile <u>Top of Top Box</u>	Temperature (F.) TOW 2 Missile <u>Between Boxes</u>	Temperature (F.) 120mm Tank Ammunition <u>Top of Pallet</u>
319	117.9	105.3	117.9
320	117.9	104.9	118.8
321	119.7	106.1	117.9
322	117.9	100.7	117.0
323	119.7	106.9	117.9
324	118.8	89.2	119.7
325	117.9	99.2	117.0
326	117.0	97.0	135.1
327	106.9	92.0	122.5
328	102.2	92.7	118.8
329	102.2	81.2	118.8
330	101.4	79.9	86.5
331	109.3	97.7	122.5
332	97.7	97.7	116.1
333	92.0	92.0	113.5

PEAK INTERNAL AMMUNITION TEMPERATURES

The maximum internal temperature for the 120mm tank ammunition was 131.7 degrees Fahrenheit on Julian Date 326 (22 November 1993). The daily internal peak temperatures for 120mm tank ammunition are higher than the daily internal peak temperatures for the TOW 2 missile, as was the case for the external probes. Once again, the top of the top box reached a higher temperature than the bottom box for the TOW 2 missile (see Table 3, pages 5-3 and 5-4).

SOMALIA PEAK TEMPERATURE READINGS (INTERIOR)

TABLE 3

Julian Date	Temperature (F.) TOW 2 Missile <u>Top of Top Box</u>	Temperature (F.) TOW 2 Missile <u>Between Boxes</u>	Temperature (F.) 120mm Tank Ammunition <u>Top of Pallet</u>
319	104.5	92.7	118.8
320	108.5	94.8	124.5
321	106.9	95.5	123.5
322	108.5	95.5	123.5
323	110.9	94.8	124.5
324	103.7	86.5	117.0
325	112.6	92.0	112.6
326	101.4	91.3	131.7
327	97.0	88.6	117.0
328	92.0	89.2	111.8
329	92.7	83.2	112.6

Julian Date	Temperature (F.) TOW 2 Missile <u>Top of Top Box</u>	Temperature (F.) TOW 2 Missile <u>Between Boxes</u>	Temperature (F.) 120mm Tank Ammunition <u>Top of Pallet</u>
330	81.9	78.6	85.2
331	98.4	91.3	118.8
332	92.0	87.2	108.5
333	82.5	86.5	106.5

SOMALIA DAILY MAXIMUM AND MINIMUM RELATIVE-HUMIDITY READINGS

Peak humidity readings during the test period varied from 86.8 percent to 100 percent for the three probes. The proximity of the coast contributed to the high-humidity readings. A 100 percent relative-humidity level occurred on 4 occasions, each on a different date. Each data logger recorded at least 1 of the 100 percent readings. A minimum humidity reading of 47.4 percent occurred on Julian date 319 (15 November 1993). The peak values occurred when the temperature was low, usually in the late evening or early morning, and the minimum humidity values usually occurred in the afternoon (see Table 4, page 5-5).

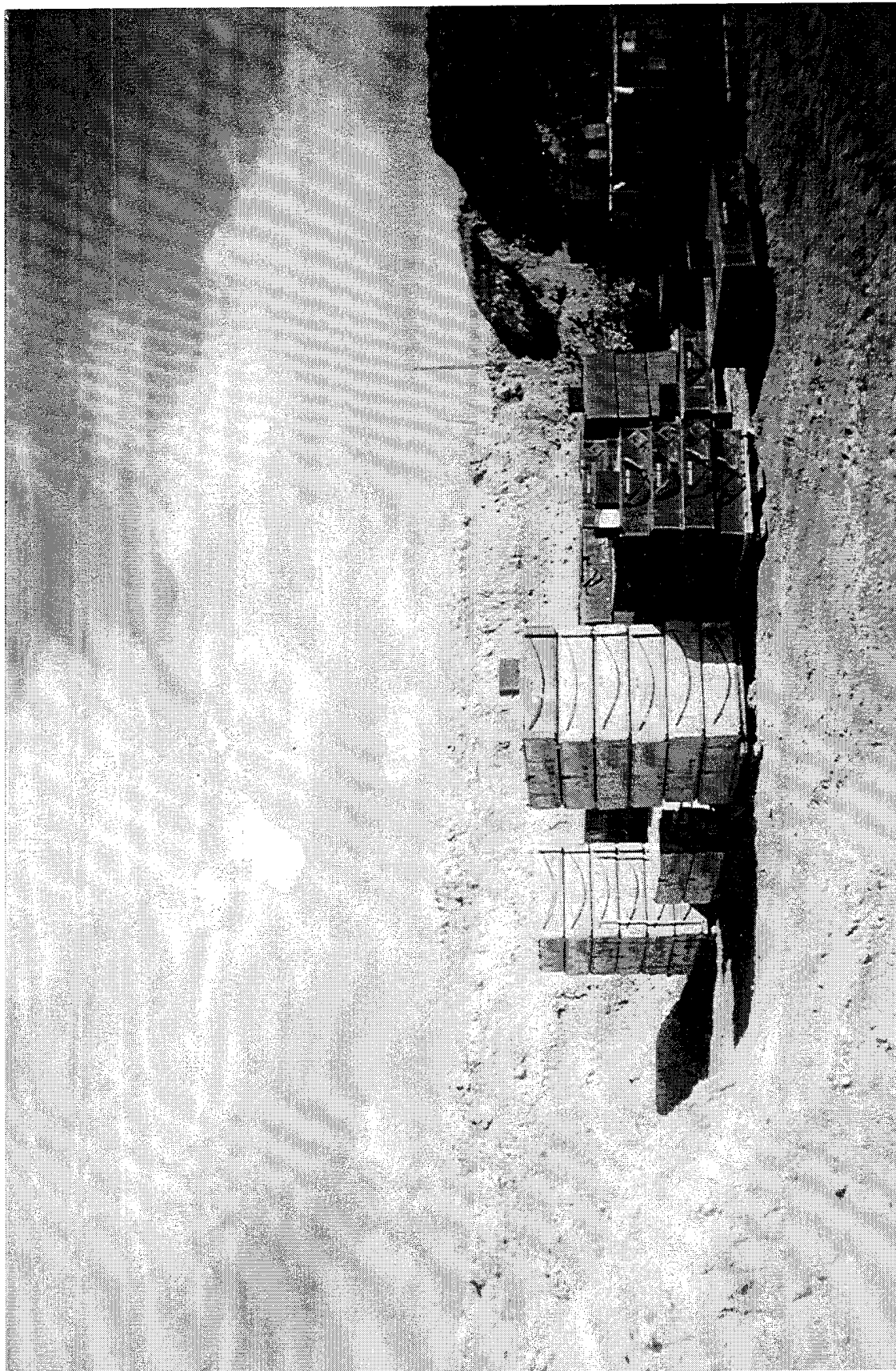
SOMALIA DAILY MAXIMUM AND MINIMUM
RELATIVE-HUMIDITY READINGS

TABLE 4

Julian Date	Relative Humidity (Percent) TOW 2 Missile <u>Top of Top Box</u>		Relative Humidity (Percent) TOW 2 Missile <u>Between Boxes</u>		Relative Humidity (Percent) 120mm Tank Ammunition <u>Top of Pallet</u>	
	MAX	MIN	MAX	MIN	MAX	MIN
319	86.8	51.9	88.4	47.4	96.9	51.9
320	88.4	49.3	88.4	47.6	96.9	49.3
321	90.2	53.0	88.4	53.0	99.8	53.0
322	90.2	51.0	88.4	47.2	96.9	51.0
323	90.2	50.4	92.2	74.9	96.9	50.4
324	88.4	53.4	100.0	48.9	96.9	53.4
325	90.2	48.5	96.9	56.9	99.8	48.5
326	92.2	59.5	92.2	60.	99.8	59.5
327	96.9	53.0	86.8	55.8	100.0	53.0
328	90.6	66.6	92.7	77.4	96.9	66.1
329	90.2	61.8	100.0	48.3	96.9	61.8
330	100.0	71.5	99.8	51.9	99.8	71.5
331	96.9	50.3	96.9	74.8	99.8	50.2
332	96.9	59.2	92.2	78.0	99.8	58.6
333	92.0	59.8	86.8	78.0	96.9	64.8

PART 6

PHOTOGRAPHS



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 1: This photo shows the typical storage conditions at the ASP located in Somalia.



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 2: This photo shows 120mm tank ammunition in open storage.



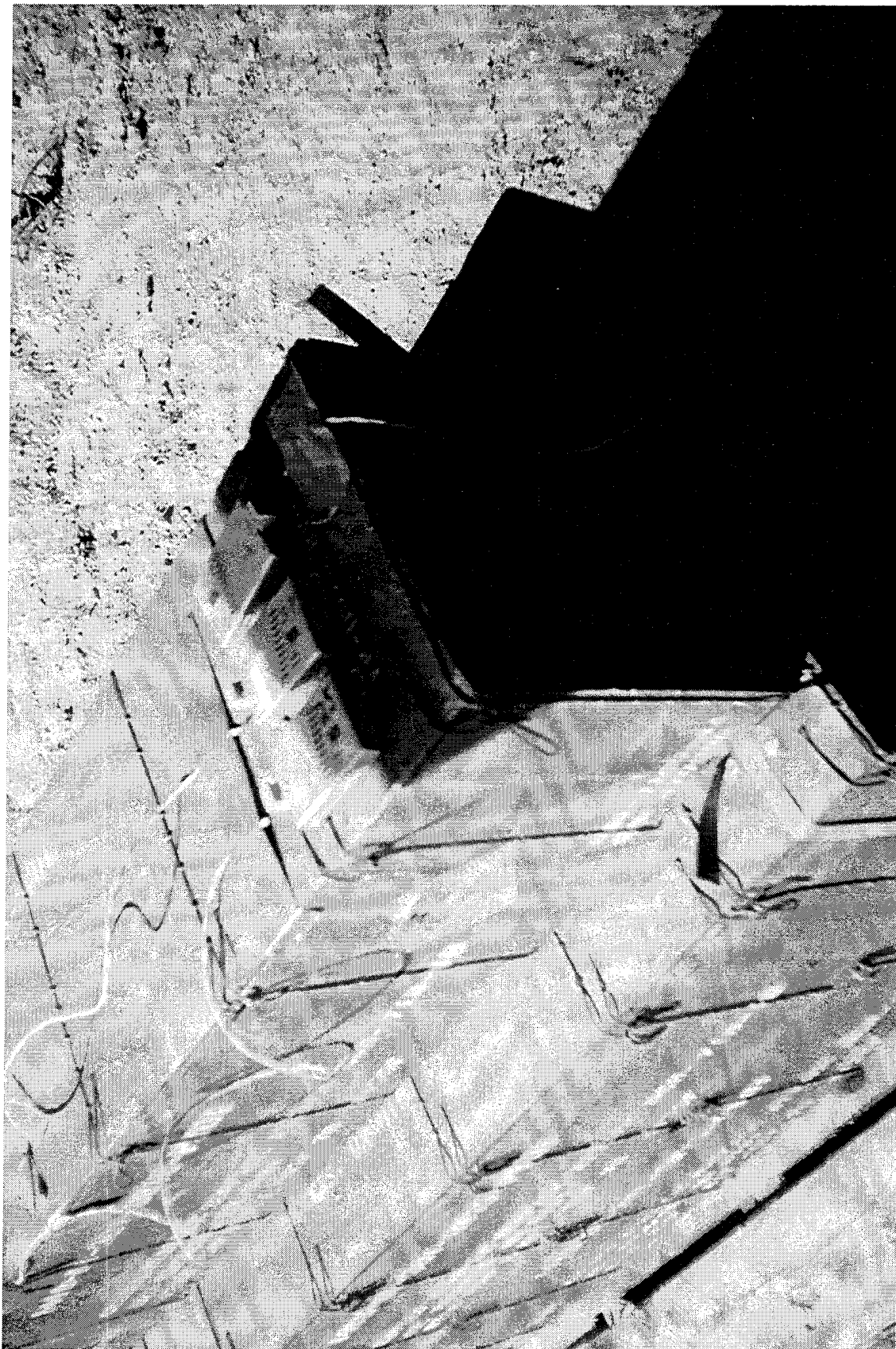
U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 3: This photo shows TOW missiles stored under tarpaulins to reduce solar radiation.



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 4: This photo shows open storage conditions following a heavy downpour.



U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL - SAVANNA, IL

PHOTO NO. 5: This photo shows a closeup view of three data loggers used to monitor ammunition temperatures. Note: Wires running from the data loggers are exterior probes used to monitor internal ammunition temperatures.

PART 7

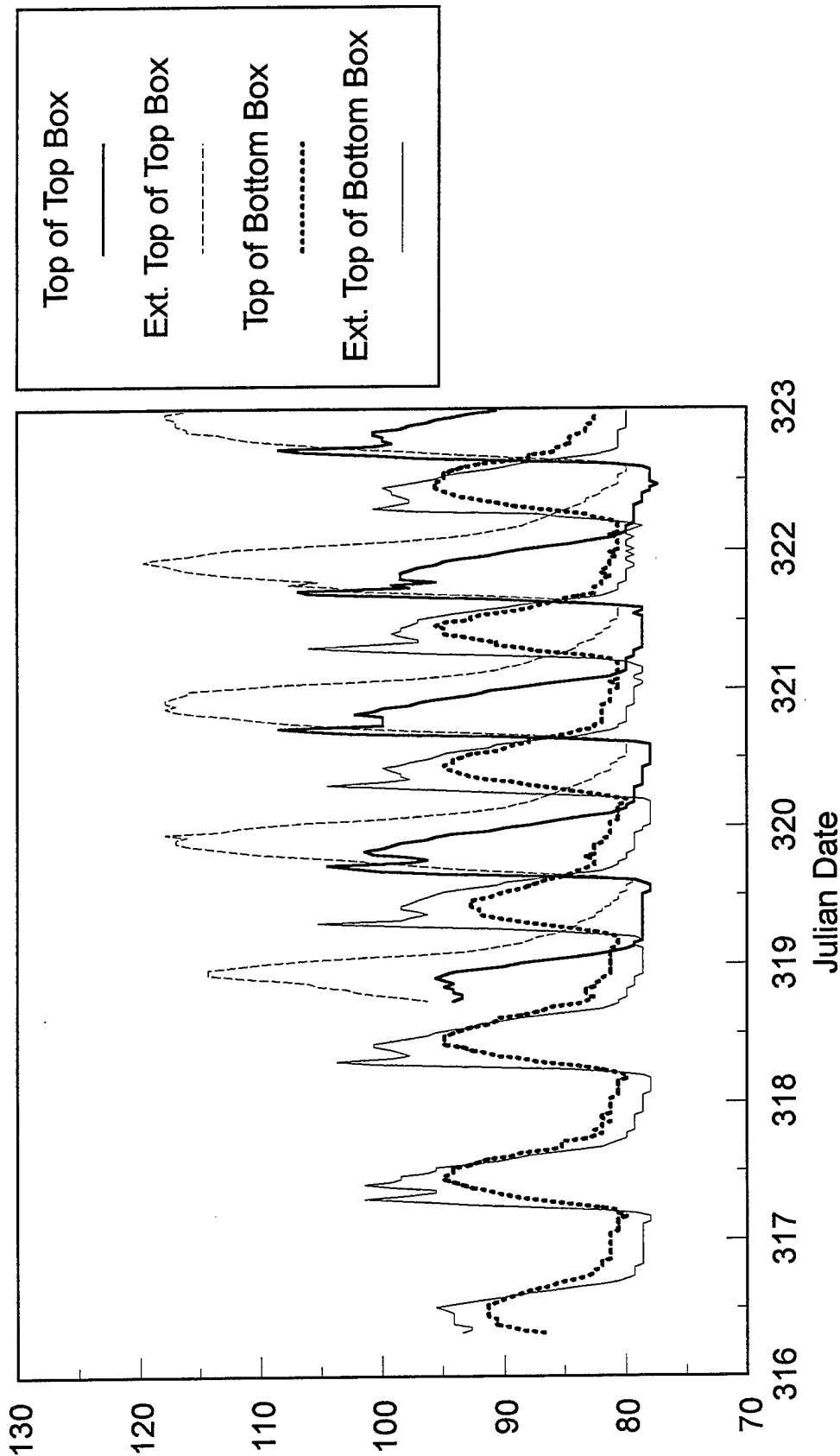
GRAPHS

1993 Environmental Monitoring of Ammo Stored at Somalia

Guided Missile Surface Attack BGM-71-1B (TOW 2)

NSN: 1410-01-301-0815-PV01, LOT: HQ-3160-4A, Serial: 470986

Temperature (Fahrenheit)

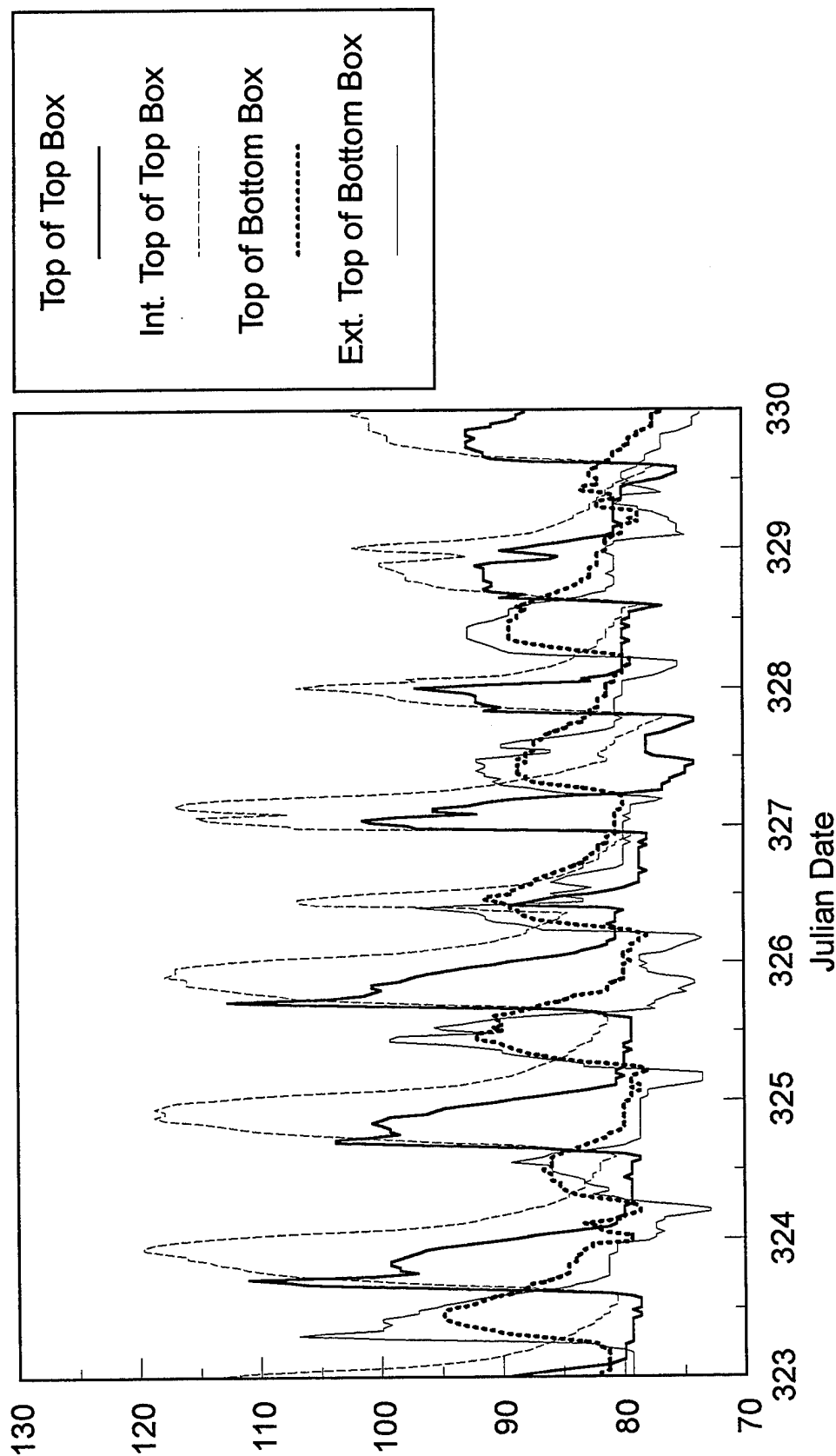


1993 Environmental Monitoring of Ammo Stored at Somalia

Guided Missile Surface Attack BGM-71-1B (TOW 2)

NSN: 1410-01-301-0815-PV01, LOT: HQ-3160-4A, Serial: 470986

Temperature (Fahrenheit)

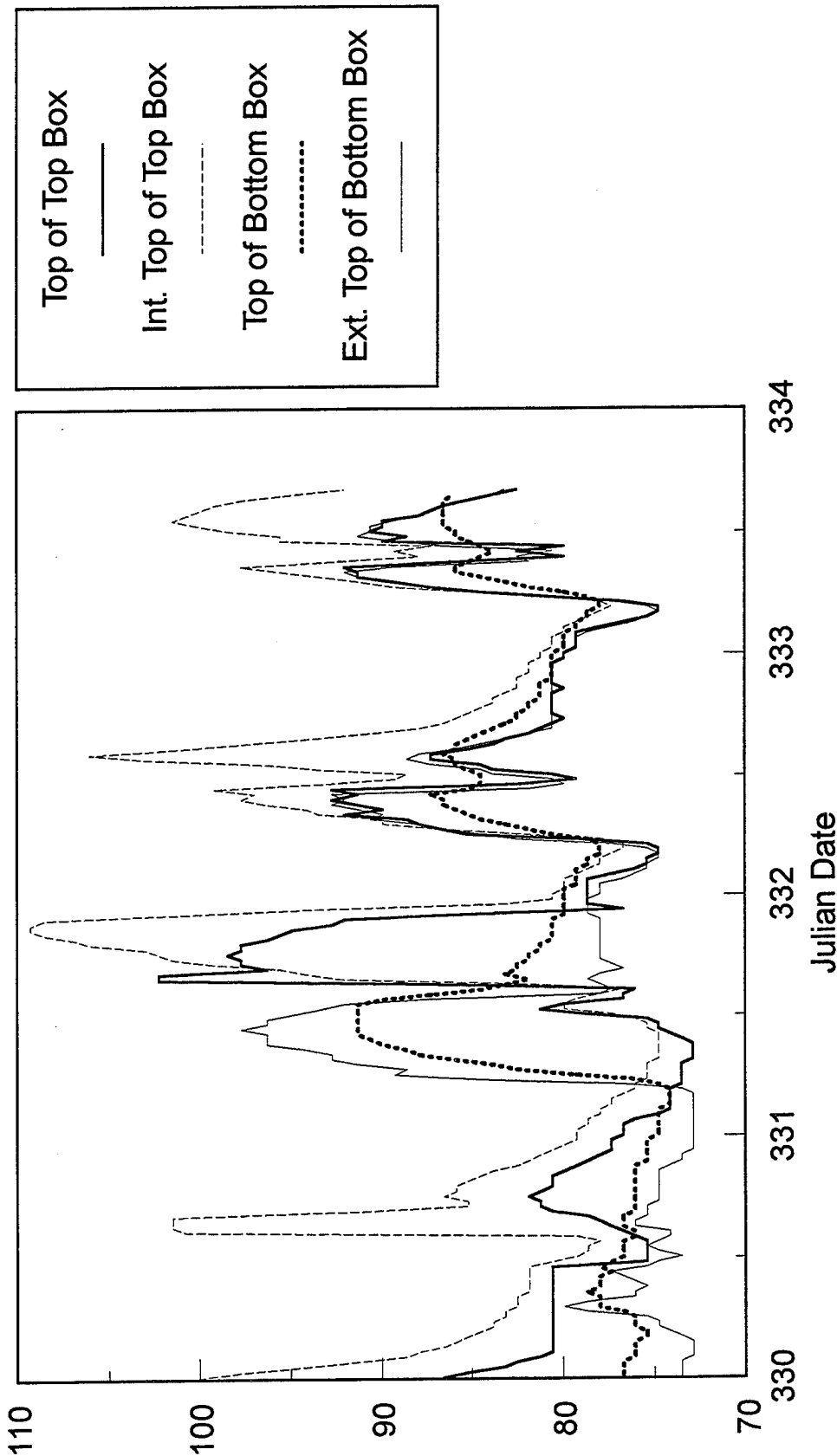


1993 Environmental Monitoring of Ammo Stored at Somalia

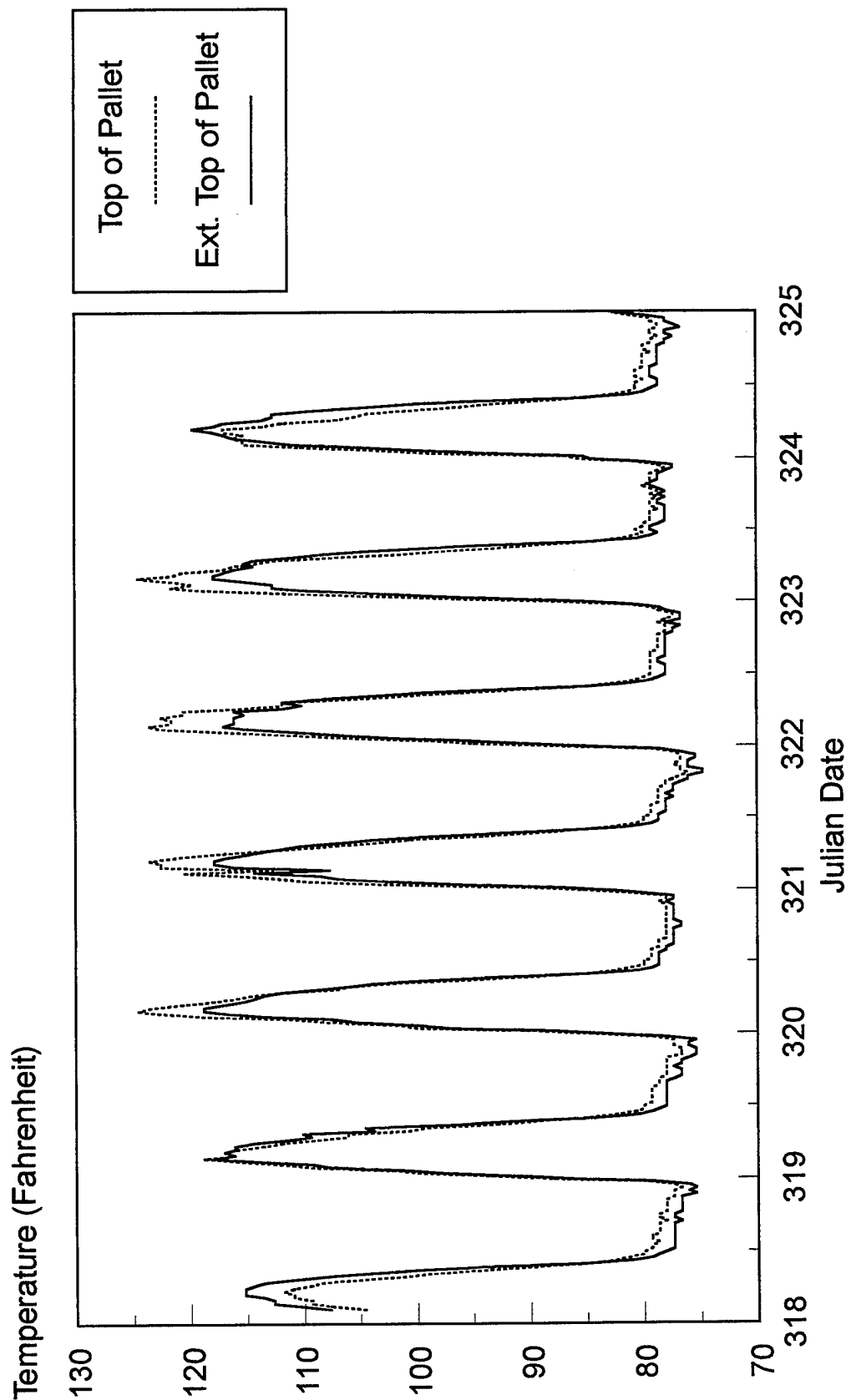
Guided Missile Surface Attack BGM-71-1B (TOW 2)

NSN: 1410-01-301-0815-PV01, LOT: HQ-3160-4A, Serial: 470986

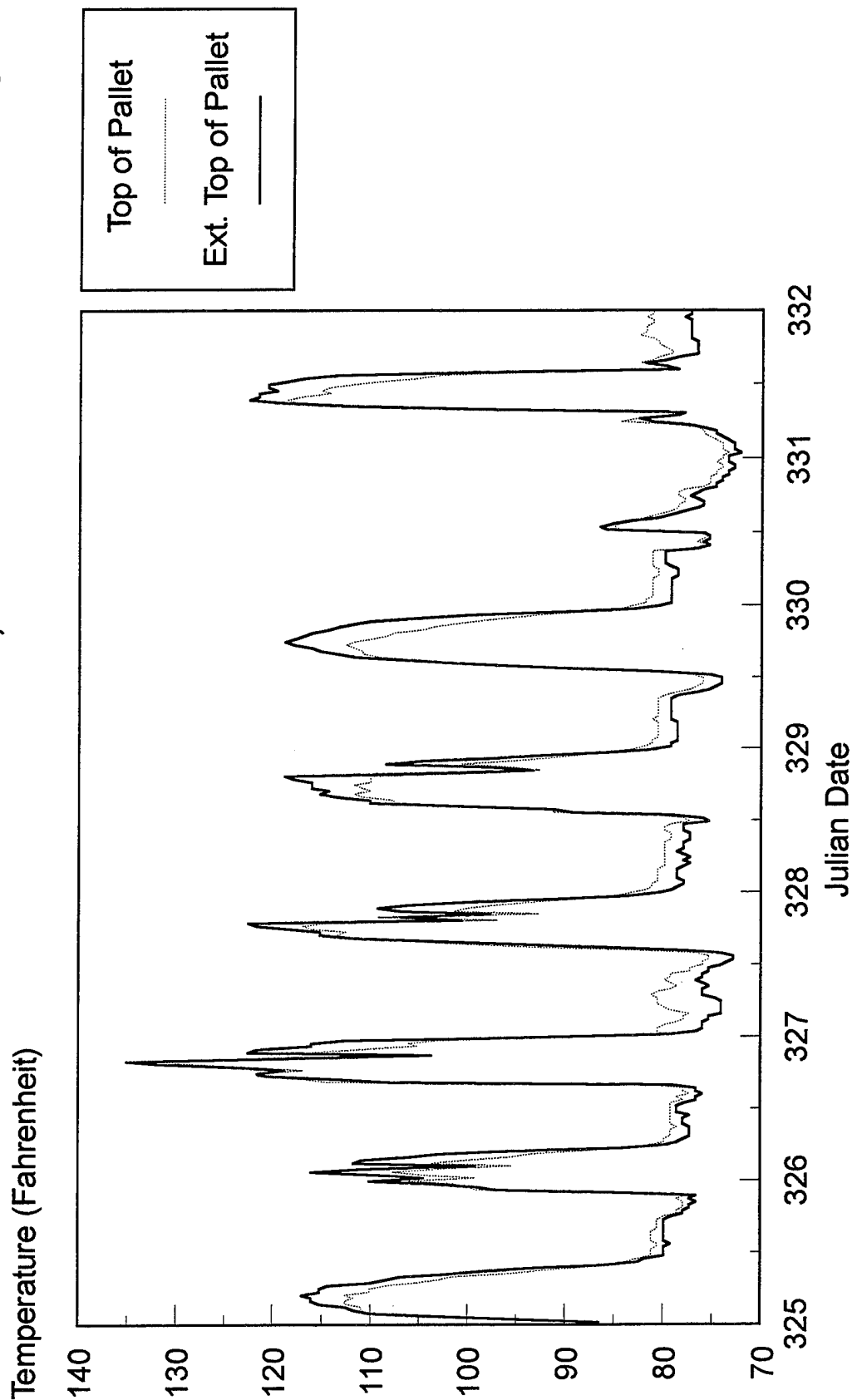
Temperature (Fahrenheit)



1993 Environmental Monitoring of Ammo Stored at Somalia
Cartridge 120 mm HEAT-MP-T M830
NSN: 1315-01-232-4638-C787, LOT:MHM90C022Y005



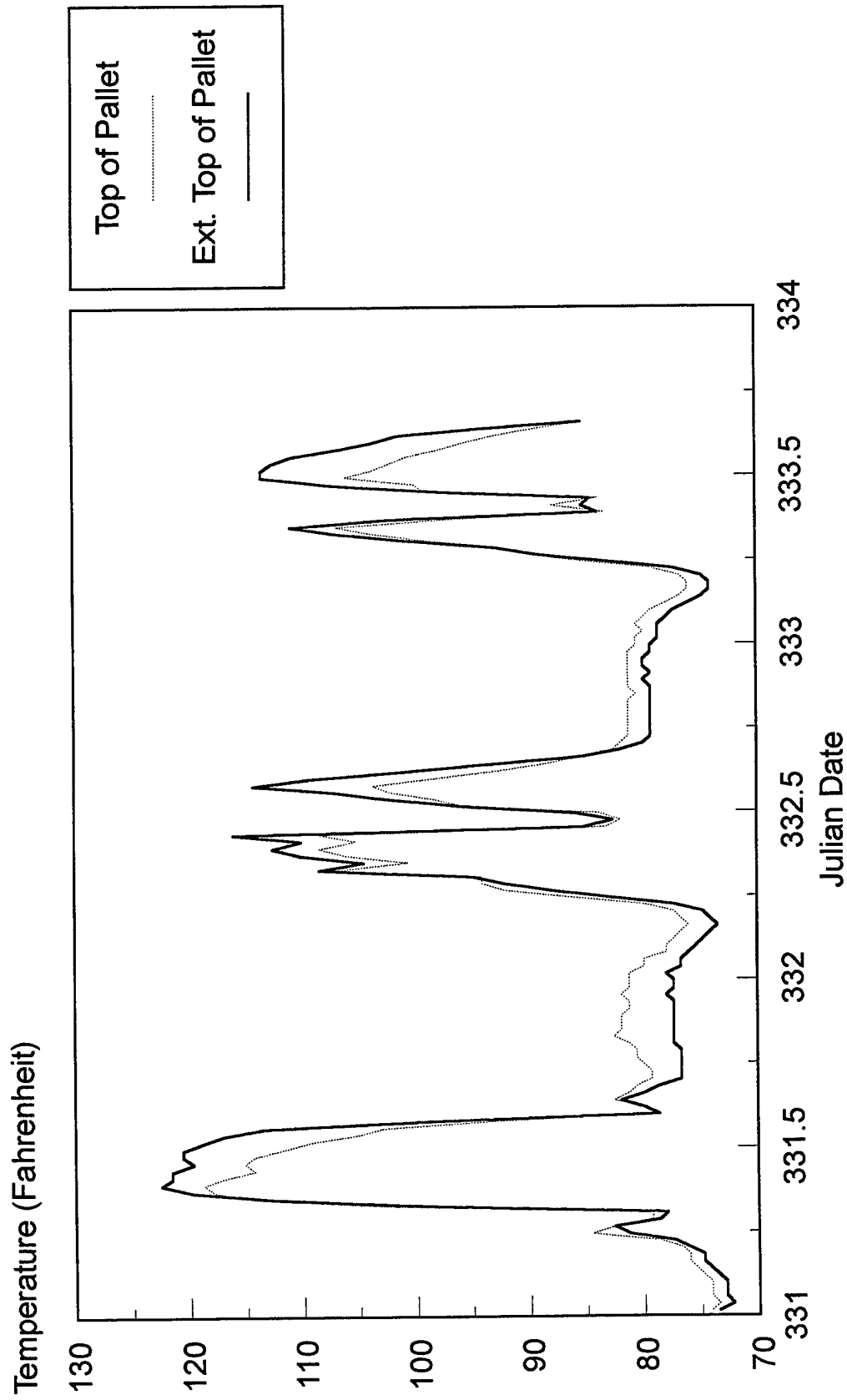
1993 Environmental Monitoring of Ammo Stored at Somalia
Cartridge 120 mm HEAT-MP-T M830
NSN: 1315-01-232-4638-C787, LOT:MHM90C022Y005



1993 Environmental Monitoring of Ammo Stored at Somalia

Cartridge 120 mm HEAT-MP-T M830

NSN: 1315-01-232-4638-C787, LOT:MHM90C022Y005



PART 8

APPENDIX

TIME INTERVAL: 30 MINUTES

UNITS: °F

GRAPH TITLE Top Box DODIC: PV01

BACKUP TIME/DATE: 19:09:05 03/14-1994

NUMBER OF READINGS: 6796

PROBE LOCATION: Top of Top Pallet

TIME	DATE	Temp.	Humidity	Ext. Temp.
17:39	11/14	94.11318	60.08382	96.25862
18:39	11/14	93.40607	60.40656	100.6701
19:39	11/14	94.11318	58.5515	102.9443
20:39	11/14	94.11318	57.97272	106.0576
21:39	11/14	95.53933	57.97272	111.7642
22:39	11/14	94.11318	58.84782	114.3264
23:39	11/14	89.92513	61.7598	111.7642
00:39	11/15	86.52454	68.07155	106.0576
01:39	11/15	82.53136	75.7299	96.98219
02:39	11/15	79.91257	80.3754	91.30706
03:39	11/15	79.26248	83.92931	88.55602
04:39	11/15	78.614	85.29733	87.19887
05:39	11/15	78.614	85.29733	85.18382
06:39	11/15	78.614	85.29733	83.85301
07:39	11/15	78.614	86.78126	83.1911
08:39	11/15	78.614	85.29733	82.53136
09:39	11/15	78.614	85.29733	81.87376
10:39	11/15	78.614	85.29733	81.21815
11:39	11/15	78.614	85.29733	80.56445
12:39	11/15	77.96712	85.29733	79.91257
13:39	11/15	77.96712	85.29733	79.91257
14:39	11/15	79.26248	86.78126	79.91257
15:39	11/15	94.82423	67.08004	87.19887
16:39	11/15	102.1807	52.09607	94.82423
17:39	11/15	97.7103	51.88293	100.6701
18:39	11/15	97.7103	54.58424	106.8517
19:39	11/15	101.4227	52.52826	112.6098
20:39	11/15	99.1804	53.87699	116.0787
21:39	11/15	96.25862	55.81957	116.9689
22:39	11/15	94.11318	57.97272	117.8689
23:39	11/15	89.92513	67.08004	111.7642
00:39	11/16	86.52454	72.76552	106.0576
01:39	11/16	83.1911	80.3754	96.98219
02:39	11/16	80.56445	83.92931	92.00314
03:39	11/16	79.91257	85.29733	89.23902
04:39	11/16	79.26248	86.78126	87.19887
05:39	11/16	79.26248	86.78126	85.85289
06:39	11/16	79.26248	86.78126	84.5172
07:39	11/16	78.614	86.78126	83.1911
08:39	11/16	78.614	86.78126	82.53136
09:39	11/16	78.614	88.40101	81.21815
10:39	11/16	77.96712	88.40101	81.21815
11:39	11/16	77.96712	88.40101	80.56445
12:39	11/16	77.96712	88.40101	79.91257
13:39	11/16	77.96712	88.40101	79.91257
14:39	11/16	79.26248	88.40101	79.91257
15:39	11/16	89.92513	74.93769	85.85289
16:39	11/16	106.0576	49.26624	97.7103
17:39	11/16	99.92271	51.04885	105.27
18:39	11/16	99.92271	51.88293	110.9267

19:39	11/16	102.1807	51.04885	115.198
20:39	11/16	99.92271	52.31115	117.8689
21:39	11/16	96.98219	55.06941	117.8689
22:39	11/16	93.40607	57.13676	116.9689
23:39	11/16	91.30706	62.11511	116.0787
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01:39	11/17	83.1911	78.36076	97.7103
02:39	11/17	80.56445	83.92931	92.70279
03:39	11/17	79.91257	85.29733	89.92513
04:39	11/17	79.91257	86.78126	87.87601
05:39	11/17	79.26248	88.40101	85.85289
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07:39	11/17	78.614	88.40101	83.85301
08:39	11/17	78.614	88.40101	82.53136
09:39	11/17	78.614	90.18186	81.87376
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18:39	11/17	95.53933	56.86607	105.27
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22:39	11/17	93.40607	60.08382	118.7792
23:39	11/17	89.92513	66.14427	114.3264
01:39	11/18	83.1911	79.33809	98.44294
02:39	11/18	80.56445	85.29733	92.70279
03:39	11/18	79.91257	86.78126	89.92513
04:39	11/18	79.26248	86.78126	87.87601
05:39	11/18	79.26248	86.78126	86.52454
06:39	11/18	79.26248	88.40101	85.18382
07:39	11/18	79.26248	88.40101	83.85301
08:39	11/18	78.614	88.40101	83.1911
09:39	11/18	78.614	88.40101	81.87376
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11:39	11/18	77.96712	88.40101	80.56445
12:39	11/18	77.96712	88.40101	80.56445
13:39	11/18	77.96712	90.18186	79.91257
14:39	11/18	81.21815	88.40101	80.56445
15:39	11/18	96.98219	68.07155	89.23902
16:39	11/18	106.8517	51.6717	97.7103
17:39	11/18	100.6701	51.04885	105.27
18:39	11/18	99.92271	52.52826	110.9267
19:39	11/18	100.6701	52.74745	113.4638
20:39	11/18	98.44294	53.87699	116.0787
21:39	11/18	96.25862	56.07601	116.9689
22:39	11/18	94.11318	59.45527	117.8689
23:39	11/18	90.61443	64.41625	116.0787
00:39	11/19	87.19887	71.46124	110.097
01:39	11/19	83.1911	80.3754	98.44294
02:39	11/19	80.56445	85.29733	93.40607
03:39	11/19	79.91257	86.78126	89.92513
04:39	11/19	79.91257	88.40101	87.87601
05:39	11/19	79.91257	88.40101	86.52454
06:39	11/19	79.26248	88.40101	85.18382

07:39	11/19	79.26248	88.40101	83.85301
08:39	11/19	79.26248	88.40101	83.1911
09:39	11/19	79.26248	88.40101	82.53136
10:39	11/19	78.614	88.40101	81.87376
11:39	11/19	79.26248	88.40101	81.21815
12:39	11/19	78.614	88.40101	80.56445
13:39	11/19	78.614	90.18186	80.56445
14:39	11/19	81.21815	88.40101	81.21815
15:39	11/19	96.98219	68.59043	89.23902
16:39	11/19	107.6524	50.44117	99.1804
17:39	11/19	100.6701	51.46231	106.8517
18:39	11/19	98.44294	56.33583	110.9267
19:39	11/19	99.1804	55.31638	113.4638
20:39	11/19	98.44294	55.31638	116.0787
21:39	11/19	96.98219	56.59914	117.8689
22:39	11/19	94.82423	59.7668	119.6999
23:39	11/19	90.61443	66.14427	116.9689
00:39	11/20	87.19887	73.4584	110.097
01:39	11/20	83.1911	80.3754	99.1804
02:39	11/20	80.56445	86.78126	93.40607
03:39	11/20	80.56445	86.78126	91.30706
04:39	11/20	79.91257	88.40101	88.55602
05:39	11/20	79.91257	88.40101	86.52454
06:39	11/20	79.26248	88.40101	85.18382
07:39	11/20	79.26248	88.40101	84.5172
08:39	11/20	79.26248	88.40101	83.1911
09:39	11/20	79.26248	88.40101	83.1911
10:39	11/20	79.91257	88.40101	82.53136
11:39	11/20	79.26248	86.78126	81.87376
12:39	11/20	79.26248	88.40101	81.87376
13:39	11/20	78.614	88.40101	81.21815
14:39	11/20	79.91257	88.40101	81.21815
15:39	11/20	86.52454	79.33809	85.85289
16:39	11/20	103.7135	56.07601	95.53933
17:39	11/20	100.6701	53.41817	102.9443
18:39	11/20	99.1804	55.31638	110.097
19:39	11/20	99.92271	54.34584	113.4638
20:39	11/20	99.92271	54.34584	117.8689
21:39	11/20	96.25862	57.68994	117.8689
22:39	11/20	94.82423	60.40656	118.7792
23:39	11/20	90.61443	66.14427	116.9689
00:39	11/21	87.19887	72.76552	110.9267
01:39	11/21	83.1911	81.48016	99.92271
02:39	11/21	80.56445	86.78126	93.40607
03:39	11/21	80.56445	88.40101	90.61443
04:39	11/21	80.56445	88.40101	88.55602
05:39	11/21	79.91257	88.40101	87.19887
06:39	11/21	79.91257	88.40101	85.85289
07:39	11/21	79.91257	88.40101	84.5172
08:39	11/21	79.26248	90.18186	83.85301
09:39	11/21	79.91257	90.18186	83.1911
10:39	11/21	79.26248	90.18186	82.53136
11:39	11/21	79.26248	88.40101	81.87376
12:39	11/21	79.26248	88.40101	81.87376
13:39	11/21	79.26248	88.40101	81.21815
14:39	11/21	81.21815	88.40101	81.87376
15:39	11/21	84.5172	85.29733	83.85301
16:39	11/21	106.8517	53.19234	96.25862
17:39	11/21	104.4887	48.50926	106.8517

18:39	11/21	100.6701	53.19234	110.9267
19:39	11/21	100.6701	54.34584	114.3264
20:39	11/21	98.44294	55.5664	116.0787
21:39	11/21	96.98219	58.25986	117.8689
22:39	11/21	94.11318	63.6143	116.9689
23:39	11/21	90.61443	69.12609	115.198
00:39	11/22	87.19887	75.7299	108.46
01:39	11/22	83.85301	83.92931	98.44294
02:39	11/22	81.87376	88.40101	94.11318
03:39	11/22	81.21815	90.18186	90.61443
04:39	11/22	80.56445	90.18186	88.55602
05:39	11/22	80.56445	90.18186	87.87601
06:39	11/22	81.21815	92.15649	86.52454
07:39	11/22	80.56445	92.15649	85.18382
08:39	11/22	80.56445	92.15649	84.5172
09:39	11/22	81.21815	59.45527	92.70279
10:39	11/22	87.87601	76.56169	106.8517
11:39	11/22	85.18382	76.56169	104.4887
12:39	11/22	81.21815	80.3754	96.25862
13:39	11/22	79.26248	85.29733	88.55602
14:39	11/22	78.614	88.40101	86.52454
15:39	11/22	78.614	90.18186	84.5172
16:39	11/22	78.614	90.18186	83.1911
17:39	11/22	78.614	90.18186	82.53136
18:39	11/22	78.614	90.18186	81.87376
19:39	11/22	78.614	88.40101	81.21815
20:39	11/22	77.96712	90.18186	80.56445
21:39	11/22	77.96712	90.18186	79.91257
22:39	11/22	77.96712	92.15649	79.91257
23:39	11/22	96.98219	86.78126	106.8517
00:39	11/23	100.6701	59.45527	111.7642
01:39	11/23	98.44294	52.96879	115.198
02:39	11/23	95.53933	55.31638	112.6098
03:39	11/23	92.70279	58.25986	116.9689
04:39	11/23	89.23902	63.6143	113.4638
05:39	11/23	79.91257	78.36076	99.1804
06:39	11/23	76.6777	94.36807	92.70279
07:39	11/23	76.03503	90.18186	89.23902
08:39	11/23	75.39355	94.36807	86.52454
09:39	11/23	74.75327	96.87523	84.5172
10:39	11/23	74.11402	96.87523	82.53136
11:39	11/23	75.39355	96.87523	81.21815
12:39	11/23	77.96712	96.87523	81.87376
13:39	11/23	77.96712	92.15649	81.21815
14:39	11/23	77.96712	90.18186	80.56445
15:39	11/23	77.96712	90.18186	79.91257
16:39	11/23	76.03503	92.15649	78.614
17:39	11/23	74.75327	92.15649	77.96712
18:39	11/23	74.11402	92.15649	76.6777
19:39	11/23	85.18382	88.40101	79.91257
20:39	11/23	89.92513	72.76552	90.61443
21:39	11/23	92.00314	67.5684	96.98219
22:39	11/23	92.00314	64.83192	99.1804
23:39	11/23	94.82423	62.11511	102.9443
00:39	11/24	90.61443	68.07155	104.4887
01:39	11/24	83.1911	90.18186	97.7103
02:39	11/24	80.56445	86.78126	88.55602
03:39	11/24	79.91257	86.78126	85.85289
04:39	11/24	79.91257	86.78126	84.5172

05:39	11/24	79.91257	86.78126	83.85301
06:39	11/24	79.91257	86.78126	82.53136
07:39	11/24	79.91257	86.78126	81.87376
08:39	11/24	79.91257	88.40101	81.21815
09:39	11/24	79.91257	88.40101	81.21815
10:39	11/24	79.26248	86.78126	80.56445
11:39	11/24	79.91257	86.78126	80.56445
12:39	11/24	79.26248	88.40101	79.91257
13:39	11/24	77.96712	88.40101	79.91257
14:39	11/24	79.26248	90.18186	79.26248
15:39	11/24	89.92513	73.4584	86.52454
16:39	11/24	90.61443	70.84579	91.30706
17:39	11/24	90.61443	69.12609	95.53933
18:39	11/24	91.30706	68.07155	97.7103
19:39	11/24	91.30706	66.6056	97.7103
20:39	11/24	91.30706	66.6056	99.1804
21:39	11/24	90.61443	66.14427	99.92271
22:39	11/24	85.18382	73.4584	92.70279
23:39	11/24	89.92513	71.46124	99.92271
00:39	11/25	86.52454	74.93769	100.6701
01:39	11/25	83.1911	80.3754	92.00314
02:39	11/25	80.56445	83.92931	87.19887
03:39	11/25	80.56445	85.29733	85.85289
04:39	11/25	80.56445	86.78126	84.5172
05:39	11/25	80.56445	83.92931	83.85301
06:39	11/25	80.56445	83.92931	82.53136
07:39	11/25	80.56445	83.92931	82.53136
08:39	11/25	79.91257	83.92931	81.87376
09:39	11/25	79.91257	83.92931	81.21815
10:39	11/25	79.91257	83.92931	80.56445
11:39	11/25	77.96712	86.78126	79.91257
12:39	11/25	76.03503	88.40101	78.614
13:39	11/25	75.39355	90.18186	77.96712
14:39	11/25	78.614	90.18186	78.614
15:39	11/25	90.61443	69.67968	87.19887
16:39	11/25	91.30706	65.25808	93.40607
17:39	11/25	92.70279	62.84837	96.98219
18:39	11/25	92.70279	62.11511	99.1804
19:39	11/25	92.70279	61.7598	99.1804
20:39	11/25	92.70279	62.11511	100.6701
21:39	11/25	90.61443	63.22705	100.6701
22:39	11/25	88.55602	65.69533	100.6701
23:39	11/25	87.87601	67.5684	101.4227
00:39	11/26	85.18382	71.46124	97.7103
01:39	11/26	82.53136	75.7299	91.30706
02:39	11/26	80.56445	80.3754	87.87601
03:39	11/26	80.56445	81.48016	85.85289
04:39	11/26	80.56445	81.48016	84.5172
05:39	11/26	80.56445	82.66124	83.85301
06:39	11/26	80.56445	82.66124	83.1911
07:39	11/26	80.56445	82.66124	82.53136
08:39	11/26	80.56445	82.66124	81.87376
09:39	11/26	80.56445	82.66124	81.87376
10:39	11/26	80.56445	82.66124	81.87376
11:39	11/26	75.39355	100	80.56445
12:39	11/26	75.39355	100	78.614
13:39	11/26	75.39355	100	77.96712
14:39	11/26	76.6777	96.87523	100.6701
15:39	11/26	77.96712	96.87523	101.4227

16:39	11/26	80.56445	96.87523	91.30706
17:39	11/26	81.21815	96.87523	85.18382
18:39	11/26	81.21815	96.87523	85.85289
19:39	11/26	80.56445	94.36807	85.18382
20:39	11/26	79.91257	82.66124	83.85301
21:39	11/26	78.614	82.66124	81.87376
22:39	11/26	77.32169	83.92931	80.56445
23:39	11/26	77.32169	85.29733	79.26248
00:39	11/27	76.6777	86.78126	79.26248
01:39	11/27	76.03503	90.18186	78.614
02:39	11/27	74.11402	94.36807	77.96712
03:39	11/27	74.11402	94.36807	77.32169
04:39	11/27	74.11402	94.36807	76.03503
05:39	11/27	73.4758	94.36807	75.39355
06:39	11/27	73.4758	96.87523	75.39355
07:39	11/27	72.83846	96.87523	74.75327
08:39	11/27	72.83846	96.87523	74.75327
09:39	11/27	73.4758	96.87523	74.75327
10:39	11/27	74.75327	94.36807	75.39355
11:39	11/27	75.39355	96.87523	76.03503
12:39	11/27	81.21815	85.29733	79.91257
13:39	11/27	76.6777	94.36807	79.26248
14:39	11/27	76.03503	96.87523	76.6777
15:39	11/27	102.1807	74.18155	92.00314
16:39	11/27	96.25862	51.04885	95.53933
17:39	11/27	97.7103	50.24176	101.4227
18:39	11/27	97.7103	50.84467	102.9443
19:39	11/27	96.25862	51.46231	106.8517
20:39	11/27	94.82423	52.31115	109.2748
21:39	11/27	92.00314	56.07601	108.46
22:39	11/27	76.6777	90.18186	93.40607
23:39	11/27	78.614	92.15649	80.56445
00:39	11/28	78.614	90.18186	79.91257
01:39	11/28	78.614	88.40101	79.91257
02:39	11/28	76.03503	88.40101	78.614
03:39	11/28	75.39355	88.40101	77.96712
04:39	11/28	74.75327	88.40101	76.6777
05:39	11/28	79.26248	88.40101	77.96712
06:39	11/28	86.52454	74.18155	86.52454
07:39	11/28	88.55602	70.25244	89.92513
08:39	11/28	89.92513	63.6143	94.11318
09:39	11/28	92.70279	59.14902	97.7103
10:39	11/28	92.70279	58.5515	99.1804
11:39	11/28	79.26248	96.87523	89.23902
12:39	11/28	83.85301	94.36807	93.40607
13:39	11/28	87.19887	92.15649	102.9443
14:39	11/28	85.18382	86.78126	101.4227
15:39	11/28	83.1911	80.3754	94.11318
16:39	11/28	81.21815	80.3754	87.87601
17:39	11/28	79.91257	81.48016	85.85289
18:39	11/28	80.56445	81.48016	84.5172
19:39	11/28	80.56445	81.48016	83.85301
20:39	11/28	79.91257	81.48016	82.53136
21:39	11/28	80.56445	81.48016	82.53136
22:39	11/28	80.56445	81.48016	81.87376
23:39	11/28	79.91257	81.48016	81.21815
00:39	11/29	79.26248	81.48016	80.56445
01:39	11/29	79.26248	81.48016	80.56445
02:39	11/29	77.96712	82.66124	79.91257

03:39	11/29	75.39355	86.78126	78.614
04:39	11/29	74.75327	88.40101	77.32169
05:39	11/29	80.56445	85.29733	80.56445
06:39	11/29	87.19887	72.10051	89.23902
07:39	11/29	91.30706	63.6143	93.40607
08:39	11/29	92.00314	59.7668	97.7103
09:39	11/29	79.91257	90.18186	87.87601
10:39	11/29	79.91257	90.18186	87.19887
11:39	11/29	88.55602	66.6056	95.53933
12:39	11/29	89.92513	64.83192	99.92271
13:39	11/29	87.87601	65.25808	100.6701
14:39	11/29	86.52454	67.5684	99.1804
15:39	11/29	83.85301	73.4584	94.82423

TIME INTERVAL: 30 MINUTES
 UNITS: °F
 GRAPH TITLEDODIC: PV01
 BACKUP TIME/DATE: 19:23:29 03/14-1994
 NUMBER OF READINGS: 6912
 PROBE LOCATION: Top of Bottom Pallet

TIME	DATE	Temp.	Humidity	Ext. Temp.
08:23	11/12	92.70279	59.45527	88.55602
09:23	11/12	94.11318	58.5515	90.61443
10:23	11/12	94.11318	56.86607	90.61443
11:23	11/12	94.11318	56.07601	91.30706
12:23	11/12	95.53933	55.81957	91.30706
13:23	11/12	92.70279	57.41133	90.61443
14:23	11/12	89.23902	61.07018	89.23902
15:23	11/12	85.85289	67.08004	87.87601
16:23	11/12	81.87376	74.93769	85.85289
17:23	11/12	79.91257	79.33809	83.85301
18:23	11/12	79.26248	82.66124	82.53136
19:23	11/12	79.26248	83.92931	81.87376
20:23	11/12	78.614	83.92931	81.87376
21:23	11/12	78.614	83.92931	81.21815
22:23	11/12	78.614	83.92931	81.21815
23:23	11/12	78.614	83.92931	81.21815
00:23	11/13	78.614	83.92931	81.21815
01:23	11/13	78.614	83.92931	81.21815
02:23	11/13	78.614	85.29733	80.56445
03:23	11/13	77.96712	83.92931	80.56445
04:23	11/13	77.96712	83.92931	79.91257
05:23	11/13	81.87376	82.66124	80.56445
06:23	11/13	92.70279	61.07018	83.85301
07:23	11/13	101.4227	48.50926	87.87601
08:23	11/13	95.53933	53.87699	90.61443
09:23	11/13	99.1804	52.74745	92.70279
10:23	11/13	99.1804	52.09607	94.11318
11:23	11/13	98.44294	52.96879	94.82423
12:23	11/13	95.53933	55.31638	94.11318
13:23	11/13	92.70279	59.45527	92.70279
14:23	11/13	89.23902	66.14427	91.30706
15:23	11/13	85.85289	71.46124	88.55602
16:23	11/13	81.87376	79.33809	85.18382
17:23	11/13	80.56445	83.92931	85.18382
18:23	11/13	79.91257	85.29733	82.53136
19:23	11/13	79.26248	83.92931	82.53136
20:23	11/13	79.26248	85.29733	81.87376
21:23	11/13	79.26248	85.29733	81.87376
22:23	11/13	78.614	85.29733	81.21815
23:23	11/13	78.614	85.29733	81.21815
00:23	11/14	78.614	86.78126	81.21815
01:23	11/14	78.614	86.78126	80.56445
02:23	11/14	77.96712	86.78126	80.56445
03:23	11/14	77.96712	86.78126	80.56445
04:23	11/14	77.96712	86.78126	79.91257
05:23	11/14	80.56445	85.29733	80.56445
06:23	11/14	92.70279	64.41625	83.1911
07:23	11/14	103.7135	47.58847	87.19887
08:23	11/14	97.7103	52.96879	90.61443
09:23	11/14	99.1804	51.46231	92.70279

10:23	11/14	100.6701	50.44117	94.82423
11:23	11/14	97.7103	52.74745	94.82423
12:23	11/14	95.53933	53.87699	94.11318
13:23	11/14	92.00314	57.97272	92.70279
14:23	11/14	89.92513	62.11511	90.61443
15:23	11/14	86.52454	70.25244	88.55602
16:23	11/14	81.87376	78.36076	86.52454
17:23	11/14	80.56445	83.92931	83.85301
18:23	11/14	79.91257	85.29733	82.53136
19:23	11/14	79.91257	85.29733	83.1911
20:23	11/14	79.26248	86.78126	82.53136
21:23	11/14	79.26248	86.78126	81.87376
22:23	11/14	78.614	88.40101	81.21815
23:23	11/14	78.614	88.40101	81.21815
00:23	11/15	78.614	88.40101	81.21815
01:23	11/15	78.614	88.40101	81.21815
02:23	11/15	78.614	88.40101	81.21815
03:23	11/15	79.26248	88.40101	80.56445
04:23	11/15	78.614	88.40101	80.56445
05:23	11/15	82.53136	83.92931	81.21815
06:23	11/15	90.61443	69.12609	83.85301
07:23	11/15	105.27	47.40736	87.87601
08:23	11/15	97.7103	54.8254	90.61443
09:23	11/15	96.98219	55.31638	92.00314
10:23	11/15	98.44294	54.34584	92.70279
11:23	11/15	96.98219	55.06941	92.70279
12:23	11/15	95.53933	56.33583	90.61443
13:23	11/15	92.70279	60.40656	88.55602
14:23	11/15	89.92513	65.25808	87.19887
15:23	11/15	85.85289	74.18155	85.18382
16:23	11/15	81.87376	80.3754	83.85301
17:23	11/15	80.56445	85.29733	82.53136
18:23	11/15	79.91257	85.29733	82.53136
19:23	11/15	79.91257	85.29733	82.53136
20:23	11/15	79.26248	86.78126	82.53136
21:23	11/15	79.26248	86.78126	81.87376
22:23	11/15	79.26248	86.78126	81.21815
23:23	11/15	78.614	86.78126	81.21815
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02:23	11/16	77.96712	88.40101	80.56445
03:23	11/16	77.96712	88.40101	80.56445
04:23	11/16	77.96712	88.40101	79.91257
05:23	11/16	82.53136	83.92931	81.21815
06:23	11/16	94.11318	62.47784	84.5172
07:23	11/16	104.4887	47.77055	87.87601
08:23	11/16	97.7103	52.74745	91.30706
09:23	11/16	98.44294	52.52826	93.40607
10:23	11/16	99.92271	51.6717	94.82423
11:23	11/16	97.7103	53.64637	94.11318
12:23	11/16	95.53933	56.07601	93.40607
13:23	11/16	93.40607	58.5515	90.61443
14:23	11/16	90.61443	64.01054	89.23902
15:23	11/16	86.52454	71.46124	87.87601
16:23	11/16	82.53136	81.48016	84.5172
17:23	11/16	80.56445	85.29733	82.53136
18:23	11/16	79.91257	86.78126	81.87376
19:23	11/16	79.91257	86.78126	81.87376
20:23	11/16	79.91257	86.78126	81.87376

21:23	11/16	79.26248	88.40101	81.87376
22:23	11/16	79.26248	88.40101	81.21815
23:23	11/16	79.26248	86.78126	81.21815
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04:23	11/17	79.26248	88.40101	80.56445
05:23	11/17	82.53136	85.29733	81.21815
06:23	11/17	96.25862	60.40656	84.5172
07:23	11/17	106.0576	47.58847	88.55602
08:23	11/17	96.98219	54.8254	90.61443
09:23	11/17	98.44294	55.06941	93.40607
10:23	11/17	98.44294	54.58424	94.82423
11:23	11/17	97.7103	54.58424	95.53933
12:23	11/17	96.98219	56.07601	92.70279
13:23	11/17	94.11318	58.84782	91.30706
14:23	11/17	89.92513	67.08004	87.87601
15:23	11/17	86.52454	73.4584	85.85289
16:23	11/17	81.87376	82.66124	83.85301
17:23	11/17	80.56445	86.78126	82.53136
18:23	11/17	80.56445	86.78126	81.87376
19:23	11/17	79.91257	86.78126	81.87376
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03:23	11/18	79.91257	86.78126	80.56445
04:23	11/18	78.614	88.40101	80.56445
05:23	11/18	81.87376	86.78126	81.21815
06:23	11/18	87.19887	75.7299	83.1911
07:23	11/18	100.6701	52.96879	87.19887
08:23	11/18	97.7103	54.8254	90.61443
09:23	11/18	98.44294	54.58424	93.40607
10:23	11/18	99.1804	53.87699	94.82423
11:23	11/18	98.44294	54.11012	95.53933
12:23	11/18	95.53933	57.68994	94.82423
13:23	11/18	93.40607	60.40656	94.82423
14:23	11/18	89.92513	67.08004	93.40607
15:23	11/18	86.52454	73.4584	89.92513
16:23	11/18	82.53136	82.66124	87.87601
17:23	11/18	80.56445	86.78126	85.85289
18:23	11/18	80.56445	86.78126	84.5172
19:23	11/18	80.56445	88.40101	84.5172
20:23	11/18	80.56445	88.40101	83.1911
21:23	11/18	79.91257	88.40101	83.1911
22:23	11/18	79.91257	88.40101	82.53136
23:23	11/18	79.91257	88.40101	82.53136
00:23	11/19	79.26248	88.40101	81.87376
01:23	11/19	79.26248	88.40101	81.21815
02:23	11/19	79.26248	88.40101	81.21815
03:23	11/19	79.26248	88.40101	81.21815
04:23	11/19	79.26248	88.40101	81.21815
05:23	11/19	81.87376	86.78126	81.87376
06:23	11/19	88.55602	75.7299	83.1911
07:23	11/19	106.8517	47.2272	87.87601

08:23	11/19	99.92271	51.46231	90.61443
09:23	11/19	99.1804	53.87699	93.40607
10:23	11/19	99.92271	52.74745	94.82423
11:23	11/19	96.98219	56.07601	94.82423
12:23	11/19	95.53933	59.14902	94.11318
13:23	11/19	93.40607	63.22705	92.00314
14:23	11/19	90.61443	69.12609	90.61443
15:23	11/19	86.52454	76.56169	88.55602
16:23	11/19	83.85301	83.92931	87.87601
17:23	11/19	81.87376	88.40101	85.85289
18:23	11/19	81.21815	90.18186	84.5172
19:23	11/19	81.21815	90.18186	84.5172
20:23	11/19	81.21815	90.18186	83.85301
21:23	11/19	81.21815	90.18186	83.85301
22:23	11/19	80.56445	92.15649	83.1911
23:23	11/19	80.56445	92.15649	82.53136
00:23	11/20	77.32169	100	79.26248
01:23	11/20	76.6777	100	81.21815
02:23	11/20	77.32169	100	81.87376
03:23	11/20	76.6777	100	81.21815
04:23	11/20	74.75327	99.76005	79.91257
05:23	11/20	72.83846	96.87523	78.614
06:23	11/20	77.32169	96.87523	79.26248
07:23	11/20	80.56445	96.87523	82.53136
08:23	11/20	81.21815	96.87523	84.5172
09:23	11/20	82.53136	96.87523	85.18382
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11:23	11/20	85.18382	92.15649	85.85289
12:23	11/20	85.85289	88.40101	86.52454
13:23	11/20	89.23902	76.56169	85.85289
14:23	11/20	86.52454	74.93769	85.85289
15:23	11/20	83.1911	75.7299	84.5172
16:23	11/20	79.91257	79.33809	83.1911
17:23	11/20	78.614	82.66124	81.87376
18:23	11/20	78.614	85.29733	81.21815
19:23	11/20	78.614	86.78126	79.91257
20:23	11/20	78.614	86.78126	79.91257
21:23	11/20	78.614	85.29733	79.91257
22:23	11/20	78.614	85.29733	79.91257
23:23	11/20	78.614	86.78126	79.91257
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01:23	11/21	77.96712	88.40101	79.26248
02:23	11/21	76.6777	96.87523	79.26248
03:23	11/21	73.4758	96.87523	79.26248
04:23	11/21	73.4758	96.87523	79.26248
05:23	11/21	77.32169	96.87523	77.96712
06:23	11/21	83.1911	96.87523	80.56445
07:23	11/21	86.52454	96.87523	85.18382
08:23	11/21	89.92513	96.87523	87.87601
09:23	11/21	92.00314	90.18186	89.23902
10:23	11/21	99.1804	81.48016	90.61443
11:23	11/21	98.44294	48.88533	92.00314
12:23	11/21	94.82423	50.64213	89.92513
13:23	11/21	93.40607	52.96879	89.92513
14:23	11/21	89.92513	57.97272	90.61443
15:23	11/21	81.21815	70.25244	89.23902
16:23	11/21	77.96712	90.18186	87.19887
17:23	11/21	77.32169	85.29733	85.18382
18:23	11/21	76.03503	90.18186	83.85301

19:23	11/21	75.39355	96.87523	81.21815
20:23	11/21	74.11402	96.87523	81.21815
21:23	11/21	74.75327	96.87523	79.91257
22:23	11/21	77.96712	94.36807	79.91257
23:23	11/21	78.614	88.40101	79.91257
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01:23	11/22	78.614	86.78126	79.91257
02:23	11/22	76.03503	90.18186	79.26248
03:23	11/22	74.75327	90.18186	79.26248
04:23	11/22	73.4758	92.15649	78.614
05:23	11/22	78.614	90.18186	78.614
06:23	11/22	87.19887	69.12609	81.21815
07:23	11/22	90.61443	61.7598	85.85289
08:23	11/22	91.30706	59.7668	87.87601
09:23	11/22	94.11318	56.86607	88.55602
10:23	11/22	92.70279	59.45527	89.23902
11:23	11/22	83.1911	96.87523	91.30706
12:23	11/22	85.85289	96.87523	89.23902
13:23	11/22	82.53136	90.18186	88.55602
14:23	11/22	85.85289	88.40101	87.19887
15:23	11/22	84.5172	79.33809	86.52454
16:23	11/22	81.87376	77.4371	85.18382
17:23	11/22	79.91257	83.92931	83.85301
18:23	11/22	79.91257	83.92931	83.1911
19:23	11/22	79.91257	83.92931	82.53136
20:23	11/22	79.91257	83.92931	81.87376
21:23	11/22	79.26248	82.66124	81.21815
22:23	11/22	79.26248	83.92931	81.21815
23:23	11/22	79.91257	83.92931	80.56445
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02:23	11/23	79.26248	83.92931	80.56445
03:23	11/23	79.26248	83.92931	79.91257
04:23	11/23	77.32169	86.78126	79.91257
05:23	11/23	78.614	86.78126	79.91257
06:23	11/23	86.52454	70.25244	81.87376
07:23	11/23	89.92513	65.69533	85.18382
08:23	11/23	89.92513	64.41625	87.87601
09:23	11/23	91.30706	62.11511	88.55602
10:23	11/23	91.30706	60.73526	88.55602
11:23	11/23	92.00314	60.73526	87.87601
12:23	11/23	89.23902	61.41159	87.87601
13:23	11/23	85.85289	68.07155	87.19887
14:23	11/23	89.92513	66.14427	87.19887
15:23	11/23	86.52454	69.12609	86.52454
16:23	11/23	82.53136	76.56169	85.85289
17:23	11/23	80.56445	80.3754	84.5172
18:23	11/23	80.56445	81.48016	83.1911
19:23	11/23	80.56445	82.66124	82.53136
20:23	11/23	80.56445	78.36076	82.53136
21:23	11/23	80.56445	79.33809	81.87376
22:23	11/23	80.56445	79.33809	81.87376
23:23	11/23	79.91257	79.33809	81.21815
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01:23	11/24	79.91257	80.3754	80.56445
02:23	11/24	77.32169	83.92931	80.56445
03:23	11/24	76.03503	86.78126	79.91257
04:23	11/24	75.39355	88.40101	79.26248
05:23	11/24	79.26248	85.29733	79.26248

06:23	11/24	89.23902	64.83192	81.87376
07:23	11/24	90.61443	60.08382	85.85289
08:23	11/24	92.00314	57.41133	88.55602
09:23	11/24	92.70279	56.33583	89.23902
10:23	11/24	92.70279	55.81957	89.23902
11:23	11/24	92.00314	56.59914	89.23902
12:23	11/24	89.92513	57.97272	88.55602
13:23	11/24	89.23902	60.08382	88.55602
14:23	11/24	87.87601	62.11511	88.55602
15:23	11/24	85.18382	66.6056	87.19887
16:23	11/24	82.53136	70.25244	85.85289
17:23	11/24	81.21815	75.7299	84.5172
18:23	11/24	80.56445	76.56169	83.1911
19:23	11/24	80.56445	77.4371	82.53136
20:23	11/24	80.56445	78.36076	82.53136
21:23	11/24	80.56445	78.36076	81.87376
22:23	11/24	80.56445	77.4371	81.87376
23:23	11/24	81.21815	76.56169	81.87376
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02:23	11/25	74.75327	100	80.56445
03:23	11/25	75.39355	100	79.91257
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06:23	11/25	77.32169	99.76005	78.614
07:23	11/25	78.614	99.76005	81.87376
08:23	11/25	79.91257	99.76005	81.87376
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10:23	11/25	77.32169	99.76005	83.1911
11:23	11/25	79.91257	99.76005	81.87376
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13:23	11/25	79.91257	94.36807	82.53136
14:23	11/25	78.614	94.36807	81.87376
15:23	11/25	77.96712	94.36807	81.21815
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17:23	11/25	76.6777	94.36807	79.91257
18:23	11/25	76.6777	96.87523	79.26248
19:23	11/25	76.6777	96.87523	79.26248
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04:23	11/26	73.4758	99.76005	75.39355
05:23	11/26	74.75327	99.76005	76.03503
06:23	11/26	75.39355	99.76005	76.03503
07:23	11/26	79.91257	99.76005	77.96712
08:23	11/26	76.03503	99.76005	77.96712
09:23	11/26	75.39355	99.76005	77.96712
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11:23	11/26	75.39355	99.76005	77.96712
12:23	11/26	73.4758	96.87523	76.6777
13:23	11/26	75.39355	94.36807	76.6777
14:23	11/26	74.11402	94.36807	76.03503
15:23	11/26	76.03503	94.36807	76.6777
16:23	11/26	75.39355	96.87523	76.6777

17:23	11/26	75.39355	96.87523	76.03503
18:23	11/26	74.75327	96.87523	76.03503
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02:23	11/27	72.83846	96.87523	74.75327
03:23	11/27	72.83846	96.87523	74.11402
04:23	11/27	72.83846	96.87523	74.11402
05:23	11/27	76.6777	96.87523	74.75327
06:23	11/27	89.23902	96.87523	79.26248
07:23	11/27	91.30706	96.87523	83.85301
08:23	11/27	92.70279	94.36807	87.87601
09:23	11/27	96.25862	83.92931	89.92513
10:23	11/27	96.25862	59.7668	91.30706
11:23	11/27	96.25862	48.32296	91.30706
12:23	11/27	94.82423	48.32296	91.30706
13:23	11/27	92.00314	51.25471	91.30706
14:23	11/27	77.96712	92.15649	87.19887
15:23	11/27	77.96712	96.87523	83.1911
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17:23	11/27	77.32169	94.36807	82.53136
18:23	11/27	77.96712	94.36807	81.87376
19:23	11/27	77.96712	94.36807	81.21815
20:23	11/27	77.96712	94.36807	80.56445
21:23	11/27	77.96712	94.36807	80.56445
22:23	11/27	78.614	92.15649	79.91257
23:23	11/27	78.614	92.15649	79.91257
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02:23	11/28	76.03503	92.15649	79.26248
03:23	11/28	75.39355	92.15649	78.614
04:23	11/28	74.75327	92.15649	77.96712
05:23	11/28	77.32169	92.15649	77.96712
06:23	11/28	84.5172	88.40101	80.56445
07:23	11/28	87.87601	65.69533	83.1911
08:23	11/28	89.92513	57.41133	85.18382
09:23	11/28	92.70279	52.52826	86.52454
10:23	11/28	92.70279	51.88293	87.19887
11:23	11/28	79.91257	94.36807	84.5172
12:23	11/28	83.85301	94.36807	84.5172
13:23	11/28	87.19887	81.48016	85.85289
14:23	11/28	87.87601	65.69533	86.52454
15:23	11/28	84.5172	68.07155	85.85289
16:23	11/28	81.87376	74.93769	84.5172
17:23	11/28	80.56445	74.93769	83.1911
18:23	11/28	80.56445	76.56169	82.53136
19:23	11/28	80.56445	75.7299	81.87376
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22:23	11/28	80.56445	76.56169	80.56445
23:23	11/28	80.56445	76.56169	80.56445
00:23	11/29	79.91257	76.56169	80.56445
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02:23	11/29	78.614	76.56169	79.91257
03:23	11/29	76.03503	82.66124	79.26248

04:23	11/29	74.75327	86.78126	78.614
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06:23	11/29	84.5172	70.84579	79.91257
07:23	11/29	89.92513	59.45527	83.1911
08:23	11/29	92.00314	54.11012	85.85289
09:23	11/29	81.87376	76.56169	85.18382
10:23	11/29	80.56445	82.66124	83.85301
11:23	11/29	89.23902	58.25986	85.18382
12:23	11/29	90.61443	57.68994	85.85289
13:23	11/29	89.23902	57.97272	86.52454
14:23	11/29	87.19887	60.08382	86.52454
15:23	11/29	85.18382	64.41625	86.52454

TIME INTERVAL: 30 MINUTES

UNITS: °F

GRAPH TITLEDODIC: C787

BACKUP TIME/DATE: 18:54:01 03/14-1994

NUMBER OF READINGS: 6826

PROBE LOCATION: Top of Pallet

TIME	DATE	Temp.	Humidity	Ext. Temp.
02:24	11/14	107.6524	44.95818	104.4887
03:24	11/14	112.6098	37.21098	109.2748
04:24	11/14	113.4638	34.26041	110.9267
05:24	11/14	115.198	32.96125	111.7642
06:24	11/14	114.3264	33.33919	109.2748
07:24	11/14	110.9267	35.67744	104.4887
08:24	11/14	104.4887	40.9878	98.44294
09:24	11/14	94.11318	57.13676	89.23902
10:24	11/14	81.21815	79.33809	82.53136
11:24	11/14	78.614	86.78126	79.91257
12:24	11/14	77.32169	90.18186	79.26248
13:24	11/14	77.32169	92.15649	78.614
14:24	11/14	77.32169	92.15649	79.26248
15:24	11/14	77.32169	92.15649	78.614
16:24	11/14	77.32169	92.15649	78.614
17:24	11/14	77.32169	92.15649	78.614
18:24	11/14	76.6777	92.15649	77.96712
19:24	11/14	76.6777	92.15649	77.96712
20:24	11/14	76.6777	92.15649	77.96712
21:24	11/14	75.39355	94.36807	77.32169
22:24	11/14	75.39355	94.36807	76.6777
23:24	11/14	79.26248	92.15649	79.91257
00:24	11/15	91.30706	68.07155	93.40607
01:24	11/15	100.6701	51.88293	102.1807
02:24	11/15	109.2748	41.63966	111.7642
03:24	11/15	117.8689	34.97659	118.7792
04:24	11/15	116.9689	34.79909	116.9689
05:24	11/15	116.0787	34.79909	113.4638
06:24	11/15	111.7642	36.70545	109.2748
07:24	11/15	110.097	40.33672	106.0576
08:24	11/15	104.4887	47.2272	99.1804
09:24	11/15	91.30706	67.08004	89.23902
10:24	11/15	80.56445	86.78126	82.53136
11:24	11/15	78.614	92.15649	79.91257
12:24	11/15	77.96712	92.15649	79.26248
13:24	11/15	77.96712	92.15649	79.26248
14:24	11/15	77.96712	92.15649	79.26248
15:24	11/15	77.96712	94.36807	78.614
16:24	11/15	77.32169	94.36807	78.614
17:24	11/15	76.6777	94.36807	77.96712
18:24	11/15	77.32169	94.36807	77.96712
19:24	11/15	76.6777	96.87523	77.96712
20:24	11/15	75.39355	96.87523	76.6777
21:24	11/15	75.39355	96.87523	76.6777
22:24	11/15	76.03503	96.87523	77.32169
23:24	11/15	77.96712	94.36807	79.26248
00:24	11/16	87.87601	76.56169	89.92513
01:24	11/16	99.92271	54.58424	101.4227
02:24	11/16	107.6524	46.69209	110.9267
03:24	11/16	116.9689	35.67744	122.5289

04:24	11/16	118.7792	33.52602	123.4955
05:24	11/16	115.198	34.79909	117.8689
06:24	11/16	113.4638	36.02293	114.3264
07:24	11/16	108.46	38.70332	106.8517
08:24	11/16	103.7135	43.94685	102.1807
09:24	11/16	93.40607	61.41159	90.61443
10:24	11/16	80.56445	85.29733	82.53136
11:24	11/16	78.614	90.18186	79.91257
12:24	11/16	78.614	92.15649	79.26248
13:24	11/16	78.614	94.36807	79.26248
14:24	11/16	77.96712	94.36807	78.614
15:24	11/16	77.32169	96.87523	78.614
16:24	11/16	77.32169	96.87523	77.96712
17:24	11/16	77.32169	96.87523	77.96712
18:24	11/16	76.6777	96.87523	77.96712
19:24	11/16	77.32169	96.87523	77.96712
20:24	11/16	77.32169	96.87523	77.96712
21:24	11/16	77.32169	96.87523	77.96712
22:24	11/16	77.32169	96.87523	77.96712
23:24	11/16	79.91257	92.15649	81.21815
00:24	11/17	87.19887	78.36076	89.92513
01:24	11/17	102.1807	54.34584	109.2748
02:24	11/17	108.46	45.64351	115.198
03:24	11/17	107.6524	42.95114	112.6098
04:24	11/17	117.8689	35.32877	122.5289
05:24	11/17	116.9689	34.44104	121.5744
06:24	11/17	113.4638	35.67744	114.3264
07:24	11/17	110.097	38.70332	106.8517
08:24	11/17	103.7135	45.47123	100.6701
09:24	11/17	92.00314	66.14427	89.23902
10:24	11/17	81.21815	85.29733	82.53136
11:24	11/17	78.614	92.15649	79.91257
12:24	11/17	78.614	92.15649	79.26248
13:24	11/17	77.96712	94.36807	79.26248
14:24	11/17	77.96712	94.36807	78.614
15:24	11/17	77.32169	94.36807	78.614
16:24	11/17	77.32169	94.36807	78.614
17:24	11/17	77.32169	94.36807	77.96712
18:24	11/17	76.03503	94.36807	77.32169
19:24	11/17	74.75327	99.76005	76.03503
20:24	11/17	76.03503	99.76005	76.6777
21:24	11/17	76.03503	96.87523	76.6777
22:24	11/17	75.39355	96.87523	76.6777
23:24	11/17	78.614	96.87523	79.26248
00:24	11/18	90.61443	72.76552	94.82423
01:24	11/18	102.1807	53.41817	106.0576
02:24	11/18	110.9267	43.94685	116.9689
03:24	11/18	116.9689	36.53579	123.4955
04:24	11/18	116.0787	35.85057	121.5744
05:24	11/18	115.198	35.85057	120.6315
06:24	11/18	111.7642	37.21098	115.198
07:24	11/18	111.7642	38.70332	111.7642
08:24	11/18	104.4887	44.45026	101.4227
09:24	11/18	93.40607	62.84837	90.61443
10:24	11/18	81.21815	86.78126	82.53136
11:24	11/18	78.614	92.15649	79.91257
12:24	11/18	77.96712	94.36807	79.26248
13:24	11/18	77.96712	94.36807	79.26248
14:24	11/18	78.614	94.36807	79.26248

15:24	11/18	77.96712	94.36807	79.26248
16:24	11/18	77.96712	94.36807	78.614
17:24	11/18	77.96712	94.36807	78.614
18:24	11/18	77.96712	94.36807	78.614
19:24	11/18	77.32169	96.87523	77.96712
20:24	11/18	77.96712	96.87523	78.614
21:24	11/18	76.6777	96.87523	77.32169
22:24	11/18	77.96712	96.87523	78.614
23:24	11/18	80.56445	92.15649	81.21815
00:24	11/19	92.00314	70.84579	96.25862
01:24	11/19	103.7135	53.64637	110.9267
02:24	11/19	112.6098	42.12989	121.5744
03:24	11/19	115.198	38.86746	121.5744
04:24	11/19	117.8689	35.67744	121.5744
05:24	11/19	116.0787	35.50352	116.9689
06:24	11/19	115.198	36.19456	114.3264
07:24	11/19	110.9267	38.5389	106.8517
08:24	11/19	104.4887	46.16444	97.7103
09:24	11/19	94.11318	63.6143	89.23902
10:24	11/19	80.56445	88.40101	81.87376
11:24	11/19	78.614	94.36807	79.91257
12:24	11/19	79.26248	94.36807	79.91257
13:24	11/19	77.96712	94.36807	79.26248
14:24	11/19	77.96712	94.36807	79.26248
15:24	11/19	77.96712	94.36807	78.614
16:24	11/19	78.614	94.36807	79.26248
17:24	11/19	77.96712	94.36807	78.614
18:24	11/19	77.96712	94.36807	78.614
19:24	11/19	79.26248	92.15649	79.91257
20:24	11/19	78.614	92.15649	79.26248
21:24	11/19	78.614	94.36807	79.26248
22:24	11/19	77.32169	96.87523	77.96712
23:24	11/19	79.91257	94.36807	80.56445
00:24	11/20	85.18382	81.48016	86.52454
01:24	11/20	99.92271	58.5515	103.7135
02:24	11/20	110.9267	43.61345	115.198
03:24	11/20	116.0787	38.3742	116.0787
04:24	11/20	117.8689	35.67744	116.9689
05:24	11/20	117.8689	34.62059	113.4638
06:24	11/20	113.4638	37.04302	106.8517
07:24	11/20	112.6098	38.3742	104.4887
08:24	11/20	104.4887	47.04795	96.25862
09:24	11/20	95.53933	61.7598	89.23902
10:24	11/20	81.21815	88.40101	82.53136
11:24	11/20	79.26248	94.36807	80.56445
12:24	11/20	78.614	94.36807	80.56445
13:24	11/20	79.26248	94.36807	80.56445
14:24	11/20	79.26248	94.36807	80.56445
15:24	11/20	78.614	94.36807	79.91257
16:24	11/20	78.614	96.87523	79.91257
17:24	11/20	78.614	96.87523	79.26248
18:24	11/20	78.614	96.87523	79.91257
19:24	11/20	77.96712	96.87523	79.26248
20:24	11/20	77.96712	96.87523	79.26248
21:24	11/20	76.6777	96.87523	78.614
22:24	11/20	77.96712	96.87523	79.26248
23:24	11/20	79.91257	94.36807	81.21815
00:24	11/21	86.52454	83.92931	87.19887
01:24	11/21	104.4887	52.96879	106.0576

02:24	11/21	111.7642	42.62188	110.9267
03:24	11/21	115.198	39.8481	112.6098
04:24	11/21	116.0787	38.20918	111.7642
05:24	11/21	115.198	37.71197	110.097
06:24	11/21	114.3264	38.86746	108.46
07:24	11/21	108.46	43.77995	102.9443
08:24	11/21	102.1807	52.31115	96.25862
09:24	11/21	92.70279	70.84579	88.55602
10:24	11/21	82.53136	88.40101	83.85301
11:24	11/21	79.91257	94.36807	81.21815
12:24	11/21	79.91257	96.87523	81.21815
13:24	11/21	79.26248	96.87523	80.56445
14:24	11/21	79.91257	96.87523	81.21815
15:24	11/21	79.91257	96.87523	81.21815
16:24	11/21	79.91257	96.87523	80.56445
17:24	11/21	79.91257	96.87523	80.56445
18:24	11/21	77.96712	94.36807	78.614
19:24	11/21	77.32169	96.87523	77.96712
20:24	11/21	76.6777	99.76005	77.96712
21:24	11/21	76.6777	94.36807	77.32169
22:24	11/21	96.98219	86.78126	99.1804
23:24	11/21	103.7135	59.45527	101.4227
00:24	11/22	104.4887	40.17392	99.1804
01:24	11/22	116.0787	32.18649	107.6524
02:24	11/22	99.1804	40.17392	95.53933
03:24	11/22	110.9267	35.15313	99.92271
04:24	11/22	102.9443	40.01105	93.40607
05:24	11/22	84.5172	60.73526	83.85301
06:24	11/22	78.614	82.66124	79.91257
07:24	11/22	77.32169	88.40101	79.26248
08:24	11/22	77.32169	92.15649	79.26248
09:24	11/22	77.96712	92.15649	79.26248
10:24	11/22	77.96712	90.18186	79.26248
11:24	11/22	78.614	90.18186	79.26248
12:24	11/22	78.614	90.18186	79.26248
13:24	11/22	76.6777	94.36807	77.96712
14:24	11/22	76.03503	96.87523	77.32169
15:24	11/22	76.6777	99.76005	77.96712
16:24	11/22	107.6524	99.76005	114.3264
17:24	11/22	120.6315	39.35855	121.5744
18:24	11/22	118.7792	24.21086	116.9689
19:24	11/22	131.7199	19.46384	128.5256
20:24	11/22	119.6999	27.74196	111.7642
21:24	11/22	122.5289	21.91444	116.0787
22:24	11/22	116.0787	24.87717	105.27
23:24	11/22	112.6098	27.21833	102.9443
00:24	11/23	79.26248	74.18155	80.56445
01:24	11/23	76.03503	96.87523	80.56445
02:24	11/23	76.03503	96.87523	78.614
03:24	11/23	75.39355	99.76005	77.96712
04:24	11/23	74.11402	99.76005	79.26248
05:24	11/23	74.11402	99.76005	80.56445
06:24	11/23	74.75327	99.76005	80.56445
07:24	11/23	76.03503	99.76005	80.56445
08:24	11/23	75.39355	99.76005	78.614
09:24	11/23	76.6777	99.76005	79.91257
10:24	11/23	76.03503	99.76005	79.26248
11:24	11/23	75.39355	99.76005	77.32169
12:24	11/23	73.4758	99.76005	76.03503

13:24	11/23	72.83846	99.76005	75.39355
14:24	11/23	77.96712	100	83.1911
15:24	11/23	94.82423	92.15649	100.6701
16:24	11/23	111.7642	34.62059	111.7642
17:24	11/23	115.198	28.4922	112.6098
18:24	11/23	121.5744	24.54902	116.9689
19:24	11/23	100.6701	47.77055	96.98219
20:24	11/23	97.7103	99.76005	92.70279
21:24	11/23	109.2748	54.8254	99.92271
22:24	11/23	99.92271	46.33954	92.70279
23:24	11/23	83.85301	66.6056	85.18382
00:24	11/24	79.26248	82.66124	81.87376
01:24	11/24	77.96712	86.78126	81.21815
02:24	11/24	78.614	86.78126	80.56445
03:24	11/24	78.614	88.40101	80.56445
04:24	11/24	77.96712	88.40101	79.91257
05:24	11/24	77.96712	88.40101	79.91257
06:24	11/24	77.96712	90.18186	79.91257
07:24	11/24	77.96712	90.18186	79.91257
08:24	11/24	77.96712	90.18186	79.91257
09:24	11/24	77.32169	92.15649	79.26248
10:24	11/24	77.96712	92.15649	79.91257
11:24	11/24	77.96712	90.18186	79.26248
12:24	11/24	76.03503	96.87523	77.96712
13:24	11/24	89.23902	67.08004	91.30706
14:24	11/24	101.4227	46.69209	101.4227
15:24	11/24	110.097	32.96125	107.6524
16:24	11/24	115.198	28.97173	111.7642
17:24	11/24	116.0787	27.21833	110.9267
18:24	11/24	116.0787	26.39167	110.097
19:24	11/24	118.7792	24.87717	110.097
20:24	11/24	93.40607	46.16444	92.70279
21:24	11/24	108.46	37.37845	100.6701
22:24	11/24	98.44294	44.28199	92.00314
23:24	11/24	85.18382	66.6056	85.85289
00:24	11/25	79.26248	83.92931	81.87376
01:24	11/25	78.614	86.78126	81.21815
02:24	11/25	78.614	88.40101	80.56445
03:24	11/25	78.614	86.78126	80.56445
04:24	11/25	78.614	85.29733	80.56445
05:24	11/25	79.26248	85.29733	80.56445
06:24	11/25	79.26248	83.92931	80.56445
07:24	11/25	79.26248	83.92931	80.56445
08:24	11/25	79.26248	83.92931	80.56445
09:24	11/25	76.6777	88.40101	78.614
10:24	11/25	74.75327	94.36807	76.6777
11:24	11/25	74.11402	96.87523	76.03503
12:24	11/25	75.39355	96.87523	77.32169
13:24	11/25	87.87601	67.08004	90.61443
14:24	11/25	102.1807	42.12989	102.9443
15:24	11/25	111.7642	31.17652	109.2748
16:24	11/25	115.198	26.67318	110.9267
17:24	11/25	117.8689	24.54902	112.6098
18:24	11/25	117.8689	23.50096	110.097
19:24	11/25	116.0787	23.50096	107.6524
20:24	11/25	113.4638	24.87717	103.7135
21:24	11/25	110.097	27.48268	99.1804
22:24	11/25	99.92271	37.21098	92.70279
23:24	11/25	83.1911	66.14427	84.5172

00:24	11/26	79.26248	78.36076	81.87376
01:24	11/26	79.26248	80.3754	81.21815
02:24	11/26	79.26248	81.48016	81.21815
03:24	11/26	79.26248	82.66124	81.21815
04:24	11/26	79.26248	83.92931	81.21815
05:24	11/26	78.614	82.66124	80.56445
06:24	11/26	79.26248	82.66124	81.21815
07:24	11/26	79.91257	80.3754	81.21815
08:24	11/26	79.91257	80.3754	81.21815
09:24	11/26	76.6777	99.76005	76.6777
10:24	11/26	76.03503	99.76005	76.6777
11:24	11/26	75.39355	99.76005	75.39355
12:24	11/26	85.85289	80.3754	84.5172
13:24	11/26	85.18382	74.18155	84.5172
14:24	11/26	80.56445	73.4584	81.87376
15:24	11/26	77.96712	79.33809	79.26248
16:24	11/26	76.03503	83.92931	78.614
17:24	11/26	76.6777	86.78126	77.96712
18:24	11/26	76.6777	85.29733	78.614
19:24	11/26	74.75327	99.76005	76.03503
20:24	11/26	74.11402	99.76005	75.39355
21:24	11/26	73.4758	99.76005	74.75327
22:24	11/26	72.83846	99.76005	74.11402
23:24	11/26	73.4758	99.76005	74.75327
00:24	11/27	73.4758	99.76005	74.11402
01:24	11/27	72.83846	99.76005	74.11402
02:24	11/27	72.83846	99.76005	74.11402
03:24	11/27	74.11402	99.76005	75.39355
04:24	11/27	74.75327	99.76005	76.03503
05:24	11/27	77.32169	99.76005	78.614
06:24	11/27	82.53136	90.18186	82.53136
07:24	11/27	77.96712	96.87523	79.26248
08:24	11/27	112.6098	86.78126	114.3264
09:24	11/27	122.5289	15.99794	118.7792
10:24	11/27	121.5744	13.99873	114.3264
11:24	11/27	120.6315	13.99873	114.3264
12:24	11/27	118.7792	13.99873	109.2748
13:24	11/27	113.4638	16.82424	102.9443
14:24	11/27	78.614	77.4371	78.614
15:24	11/27	81.87376	99.76005	82.53136
16:24	11/27	78.614	99.76005	80.56445
17:24	11/27	76.6777	99.76005	79.26248
18:24	11/27	76.6777	99.76005	80.56445
19:24	11/27	77.32169	99.76005	81.21815
20:24	11/27	77.32169	99.76005	81.87376
21:24	11/27	77.32169	99.76005	81.87376
22:24	11/27	77.32169	99.76005	81.21815
23:24	11/27	77.32169	99.76005	81.21815
00:24	11/28	77.96712	99.76005	81.21815
01:24	11/28	76.6777	99.76005	79.91257
02:24	11/28	75.39355	99.76005	77.96712
03:24	11/28	74.11402	99.76005	76.6777
04:24	11/28	74.11402	99.76005	76.6777
05:24	11/28	77.32169	99.76005	79.91257
06:24	11/28	87.87601	96.87523	92.00314
07:24	11/28	94.82423	81.48016	94.11318
08:24	11/28	104.4887	27.21833	100.6701
09:24	11/28	112.6098	19.46384	108.46
10:24	11/28	116.0787	17.56996	108.46

11:24	11/28	82.53136	99.76005	81.87376
12:24	11/28	95.53933	96.87523	95.53933
13:24	11/28	106.8517	83.92931	102.1807
14:24	11/28	109.2748	27.48268	98.44294
15:24	11/28	93.40607	41.31355	88.55602
16:24	11/28	81.87376	70.84579	82.53136
17:24	11/28	79.26248	77.4371	81.21815
18:24	11/28	79.26248	79.33809	81.21815
19:24	11/28	79.26248	80.3754	81.21815
20:24	11/28	79.26248	80.3754	80.56445
21:24	11/28	79.91257	79.33809	81.21815
22:24	11/28	79.91257	79.33809	81.21815
23:24	11/28	79.26248	78.36076	81.21815
00:24	11/29	78.614	79.33809	80.56445
01:24	11/29	78.614	79.33809	80.56445
02:24	11/29	77.32169	80.3754	79.26248
03:24	11/29	74.75327	90.18186	76.6777
04:24	11/29	74.11402	96.87523	76.03503
05:24	11/29	77.32169	90.18186	79.26248
06:24	11/29	89.23902	56.33583	89.92513
07:24	11/29	100.6701	36.53579	99.1804
08:24	11/29	110.9267	23.50096	106.8517
09:24	11/29	83.85301	60.73526	83.1911
10:24	11/29	84.5172	71.46124	83.85301
11:24	11/29	107.6524	24.21086	99.92271
12:24	11/29	113.4638	19.46384	103.7135
13:24	11/29	110.9267	21.01194	100.6701
14:24	11/29	103.7135	25.19607	95.53933
15:24	11/29	94.11318	38.3742	89.23902
16:24	11/29	83.1911	67.08004	42.35537